

M.D.bring

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JUN 24

TECH CENTER 1600



## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/724,868

DATE: 06/03/2003

TIME: 08:51:40

Input Set : N:\CrF3\RULE60\09724868.raw.txt

Output Set: N:\CRF4\06032003\I724868.raw

## SEQUENCE LISTING

## 3 (1) GENERAL INFORMATION:

5 (i) APPLICANT: Lam, Xanthe M.  
 6 Oeswein, James Q.  
 7 Ongpipattanakul, Boonsri  
 8 Shahrokh, Zahra  
 9 Wang, Sharon X.  
 10 Weissburg, Robert P.  
 11 Wong, Rita L.

13 (ii) TITLE OF INVENTION: Antibody Formulation

15 (iii) NUMBER OF SEQUENCES: 11

17 (iv) CORRESPONDENCE ADDRESS:

18 (A) ADDRESSEE: Genentech, Inc.  
 19 (B) STREET: 1 DNA Way  
 20 (C) CITY: South San Francisco  
 21 (D) STATE: California  
 22 (E) COUNTRY: USA  
 23 (F) ZIP: 94080

25 (v) COMPUTER READABLE FORM:

26 (A) MEDIUM TYPE: 3.5 inch, 1.44 Mb floppy disk  
 27 (B) COMPUTER: IBM PC compatible  
 28 (C) OPERATING SYSTEM: PC-DOS/MS-DOS  
 29 (D) SOFTWARE: WinPatin (Genentech)

31 (vi) CURRENT APPLICATION DATA:

C--> 32 (A) APPLICATION NUMBER: US/09/724,868  
 C--> 33 (B) FILING DATE: 28-Nov-2000  
 34 (C) CLASSIFICATION: 424

36 (vii) PRIOR APPLICATION DATA:

W--> 38 (A) APPLICATION NUMBER: US/09/097,171  
 39 (B) FILING DATE:

W--> 40 (A) APPLICATION NUMBER: 08/874897  
 41 (B) FILING DATE: 13-JUN-1997

43 (viii) ATTORNEY/AGENT INFORMATION:

44 (A) NAME: Lee, Wendy M.  
 45 (B) REGISTRATION NUMBER: 40,378  
 46 (C) REFERENCE/DOCKET NUMBER: P1089R

48 (ix) TELECOMMUNICATION INFORMATION:

49 (A) TELEPHONE: 650/225-1994  
 50 (B) TELEFAX: 650/952-9881

## 51 (2) INFORMATION FOR SEQ ID NO: 1:

## 53 (i) SEQUENCE CHARACTERISTICS:

54 (A) LENGTH: 241 amino acids  
 55 (B) TYPE: Amino Acid

ENTERED

SICB

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/724,868

DATE: 06/03/2003

TIME: (F: 11:40)

Input Set : N:\CrF3\RULE60\09724868.raw.txt  
Output Set: N:\CRF4\06032003\I724868.raw

56 (D) TOPOLOGY: Linear  
 58 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:  
 60 Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly  
 61 1 5 10 15  
 63 Gly Ser Leu Arg Leu Ser Cys Ala Thr Ser Gly Tyr Thr Phe Thr  
 64 20 25 30  
 66 Glu Tyr Thr Met His Trp Met Arg Gln Ala Pro Gly Lys Gly Leu  
 67 35 40 45  
 69 Glu Trp Val Ala Gly Ile Asn Pro Lys Asn Gly Gly Thr Ser His  
 70 50 55 60  
 72 Asn Gln Arg Phe Met Asp Arg Phe Thr Ile Ser Val Asp Lys Ser  
 73 65 70 75  
 75 Thr Ser Thr Ala Tyr Met Gln Met Asn Ser Leu Arg Ala Glu Asp  
 76 80 85 90  
 78 Thr Ala Val Tyr Tyr Cys Ala Arg Trp Arg Gly Ile Asn Tyr Gly  
 79 95 100 105  
 81 Phe Asp Val Arg Tyr Phe Asp Val Trp Gly Gln Gly Thr Ile Val  
 82 110 115 120  
 84 Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu  
 85 125 130 135  
 87 Ala Pro Ser Ser Lys Ser Thr Ser Gly Gly Thr Ala Ala Leu Gly  
 88 140 145 150  
 90 Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val Ser Trp  
 91 155 160 165  
 93 Asn Ser Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro Ala Val  
 94 170 175 180  
 96 Leu Gln Ser Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val  
 97 185 190 195  
 99 Pro Ser Ser Ser Leu Gly Thr Gln Thr Tyr Ile Cys Asn Val Asn  
 100 200 205 210  
 102 His Lys Pro Ser Asn Thr Lys Val Asp Lys Lys Val Glu Pro Lys  
 103 215 220 225  
 105 Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu  
 106 230 235 240  
 108 Leu

109 241

111 (2) INFORMATION FOR SEQ ID NO: 2:

113 (i) SEQUENCE CHARACTERISTICS:

114 (A) LENGTH: 214 amino acids

115 (B) TYPE: Amino Acid  
116

116 (D) TOPOLOGY: Linear  
117  
118

118 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:

120 Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Ile Ser Ala Ser Val  
121 1

121      1      10      15  
122      Glass      Pot      Wood      Th.      Th.      Th.      C.      D.      D.      D.      D.

123 Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Asp Ile Asn  
124 22 65

124 ZU 25 25 30  
126 AGR TUR LOR AGR TUR TUR GLO GLO LOR GLO LOR LOR

127 Lou Lou Ilo Tux Tux Tha San Tha Lou Ilo San Gla Nai P San

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/724,868

DATE: 5/6/03/2003

TIME: 08:31:40

Input Set : N:\Crf3\RULE60\09724868.raw.txt

Output Set: N:\CRF4\06032003\I724868.raw

130	50	55	60
132	Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Tyr Thr Leu Thr Ile		
133	65	70	75
135	Ser Ser Leu Gln Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln		
136	80	85	90
138	Gly Asn Thr Leu Pro Pro Thr Phe Gly Gln Gly Thr Lys Val Glu		
139	95	100	105
141	Ile Lys Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro		
142	110	115	120
144	Ser Asp Glu Gln Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu		
145	125	130	135
147	Leu Asn Asn Phe Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys Val		
148	140	145	150
150	Asp Asn Ala Leu Gln Ser Gly Asn Ser Gln Glu Ser Val Thr Glu		
151	155	160	165
153	Gln Asp Ser Lys Asp Ser Thr Tyr Ser Leu Ser Ser Thr Leu Thr		
154	170	175	180
156	Leu Ser Lys Ala Asp Tyr Glu Lys His Lys Val Tyr Ala Cys Glu		
157	185	190	195
159	Val Thr His Gln Gly Leu Ser Ser Pro Val Thr Lys Ser Phe Asn		
160	200	205	210

162	Arg Gly Glu Cys
163	214

165 (2) INFORMATION FOR SEQ ID NO: 3:

167	(i) SEQUENCE CHARACTERISTICS:
168	(A) LENGTH: 36 amino acids
169	(B) TYPE: Amino Acid
170	(D) TOPOLOGY: Linear

172 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:

174	Leu Gly Gly Arg Met Lys Gln Leu Glu Asp Lys Val Glu Glu Leu
175	1 5 10 15
177	Leu Ser Lys Asn Tyr His Leu Glu Asn Glu Val Ala Arg Leu Lys
178	20 25 30
180	Lys Leu Val Gly Glu Arg
181	35 36

183 (2) INFORMATION FOR SEQ ID NO: 4:

185	(i) SEQUENCE CHARACTERISTICS:
186	(A) LENGTH: 11 amino acids
187	(B) TYPE: Amino Acid
188	(D) TOPOLOGY: Linear

190 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:

192	Pro Lys Asn Ser Ser Met Ile Ser Asn Thr Pro
193	1 5 10 11

195 (2) INFORMATION FOR SEQ ID NO: 5:

197	(i) SEQUENCE CHARACTERISTICS:
198	(A) LENGTH: 7 amino acids
199	(B) TYPE: Amino Acid
200	(D) TOPOLOGY: Linear

202 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/724,868

DATE: 06/03/2003  
TIME: 06:31:40

Input Set : N:\CrF3\RULE60\09724868.raw.txt  
Output Set: N:\CRF4\06032003\I724868.raw

204 His Gln Ser Leu Gly Thr Gln  
205 1 5 7  
207 (2) INFORMATION FOR SEQ ID NO: 6:  
209 (i) SEQUENCE CHARACTERISTICS:  
210 (A) LENGTH: 8 amino acids  
211 (B) TYPE: Amino Acid  
212 (D) TOPOLOGY: Linear  
214 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:  
216 His Gln Asn Leu Ser Asp Gly Lys  
217 1 5 8  
219 (2) INFORMATION FOR SEQ ID NO: 7:  
221 (i) SEQUENCE CHARACTERISTICS:  
222 (A) LENGTH: 8 amino acids  
223 (B) TYPE: Amino Acid  
224 (D) TOPOLOGY: Linear  
226 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:  
228 His Gln Asn Ile Ser Asp Gly Lys  
229 1 5 8  
231 (2) INFORMATION FOR SEQ ID NO: 8:  
233 (i) SEQUENCE CHARACTERISTICS:  
234 (A) LENGTH: 8 amino acids  
235 (B) TYPE: Amino Acid  
236 (D) TOPOLOGY: Linear  
238 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:  
240 Val Ile Ser Ser His Leu Gly Gln  
241 1 5 8  
243 (2) INFORMATION FOR SEQ ID NO: 9:  
245 (i) SEQUENCE CHARACTERISTICS:  
246 (A) LENGTH: 2143 base pairs  
247 (B) TYPE: Nucleic Acid  
248 (C) STRANDEDNESS: Single  
249 (D) TOPOLOGY: Linear  
251 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 9:  
254 GAATTCAACT TCTCCATACT TTGGATAAGG AAATACAGAC ATGAAAAATC 50  
256 TCATTGCTGA GTTGTATTT AAGCTTGGA GATTATCGTC ACTGCAATGC 100  
258 TTGCGCAATAT GGCGCAAAAT GACCAACAGC GGTTGATTGA TCAGGTTAGAG 150  
260 GGGGCGCTGT ACGAGGTAAA GCCCCATGCC AGCATTCCCTG ACGACGATAC 200  
262 GGAGCTGCTG CGCGATTACG TAAAGAAGTT ATTGAAGCAT CCTCGTCAGT 250  
264 AAAAAGTTAA TCTTTCAAC AGCTGTCATA AAGTTGTCAC GGCGAGACT 300  
266 TATAGTCGCT TTGTTTTAT TTTTTAATGT ATTGTAAC AGAATTGAG 350  
268 CTCGCCGGGG ATCCTCTAGA GGTTGAGGTG ATTTTATGAA AAAGAATATC 400  
270 GCATTTCCTTC TTGCATCTAT GTTCGTTTT TCTATTGCTA CAAACCGGTA 450  
272 CGCTGATATC CAGATGACCC AGTCCCCGAG CTCCCTGTC GCCTCTGTGG 500  
274 GCGATAGGGT CACCATCACC TGCGTGCCA GTCAGGACAT CAACAATTAT 550  
276 CTGAACCTGGT ATCAACAGAA ACCAGGAAAA GCTCCGAAAC TACTGATTTA 600  
278 CTATACCTCC ACCCTCCACT CTGGAGTCCC TTCTCGCTTC TCTGGTTCTG 650  
280 GTTCTGGGAC GGATTACACT CTGACCATCA GCAGTCTGCA ACCGGAGGAC 700  
282 TTGCGAACTT ATTACTGTCA GCAAGGTAAT ACTCTGCCGC CGACGTTGG 750  
284 ACAGGGCACG AAGGTGGAGA TCAAACGAAC TGTGGCTGCA CCATCTGTCT 800

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PATENT APPLICATION: US/09/724,868

DATE: 06/03/2003

TIME: 08:31:40

Input Set : N:\Crf3\RULE60\09724868.raw.txt

Output Set: N:\CRF4\06032003\I724868.raw

266 TCATCTTCCC GCCATCTGAT GAGCAGTTGA AATCTGGAAC TGCCTCTGTT 850  
 288 GTGTGCCTGC TGAATAACTT CTATCCAGA GAGGCCAAAG TACAGTGGAA 900  
 290 GGTGGATAAC GCCCTCCAAT CGGGTAACTC CCAGGGAGGT GTCACAGAGC 950  
 292 AGGACAGCAA GGACAGCACC TACAGCCTCA GCAGCACCCT GACGCTGAGC 1000  
 294 AAAGCAGACT ACGAGAAACA CAAAGTCTAC GCCTGCGAAG TCACCCATCA 1050  
 296 GGGCCTGAGC TCGCCCGTCA CAAAGAGCTT CAACAGGGGA GAGTGTAAAG 1100  
 298 CTGATCCTCT ACGCCGGACG CATCGTGGCG CTAGTACGCA AGTTCACGTA 1150  
 300 AAAACGGTAT CTAGAGGTTG AGGTGATTTT ATGAAAAAGA ATATCGCATT 1200  
 302 TCTTCTTGCA TCTATGTTCG TTTTTCTAT TGCTACAAAC GCGTACGCTG 1250  
 304 AGGTTCAAGCT GGTGGAGTCT GGCCTGGCC TGGTGCAGCC AGGGGGCTCA 1300  
 306 CTCCGTTTGT CCTGTGCAAC TTCTGGCTAC ACCTTTACCG AATACACTAT 1350  
 308 GCACTGGATG CGTCAGGCC CGGGTAAGGG CCTGGAATGG GTTGCAGGG 1400  
 310 TTAATCTAA AAACGGTGGT ACCAGCCACA ACCAGAGGTT CATGGACCGT 1450  
 312 TTCACTATAA GCGTAGATAA ATCCACCAGT ACAGCCTACA TGCAAATGAA 1500  
 314 CAGCCTGCGT GCTGAGGACA CTGCCGTCTA TTATTGTGCT AGATGGCGAG 1550  
 316 GCCTGAACTA CGGCTTGAC GTCCGTTATT TTGACGTCG GGGTCAAGGA 1600  
 318 ACCCTGGTCA CCGTCTCCTC GGCCTCCACC AAGGGCCCAT CGGTCTCCC 1650  
 320 CCTGGCACCC TCCTCCAAGA GCACCTCTGG GGGCACAGCG GCCCTGGGCT 1700  
 322 GCCTGGTCAA GGACTACTTC CCCGAACCGG TGACGGTGTG GTGGAACCTCA 1750  
 324 GGCGCCCTGA CCAGCGGC GTGACACCTTC CCGGCTGTCC TACAGTCCTC 1800  
 326 AGGACTCTAC TCCCTCAGCA GCGTGGTGAC CGTGCCTCC AGCAGCTTGG 1850  
 328 GCACCCAGAC CTACATCTGC AACGTGAATC ACAAGCCCAG CAACACCAAG 1900  
 330 GTCGACAAGA AAGTTGAGCC CAAATCTTGT GACAAAATC ACACATGCC 1950  
 332 GCCGTGCCA GCACCGAGAAC TGCTGGCGG CCCCATGAAA CAGCTAGAGG 2000  
 334 ACAAGGTCGA AGAGCTACTC TCCAAGAACT ACCACCTAGA GAATGAAGTG 2050  
 336 GCAAGACTCA AAAAGCTTGT CGGGGAGCGC TAAGCATGCG ACGGCCCTAG 2100  
 338 AGTCCCTAAC GCTCGGTTGC CGCCGGCGT TTTTATTGT TAA 2143

340 (2) INFORMATION FOR SEQ ID NO: 10:

342 (i) SEQUENCE CHARACTERISTICS:

343 (A) LENGTH: 237 amino acids

344 (B) TYPE: Amino Acid

345 (D) TOPOLOGY: Linear

347 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 10:

349 Met	Lys	Lys	Asn	Ile	Ala	Phe	Leu	Leu	Ala	Ser	Met	Phe	Val	Phe
350 -23		-20				-15						-10		
352 Ser	Ile	Ala	Thr	Asn	Ala	Tyr	Ala	Asp	Ile	Gln	Met	Thr	Gln	Ser
353				-5				1				5		
355 Pro	Ser	Ser	Leu	Ser	Ala	Ser	Val	Gly	Asp	Arg	Val	Thr	Ile	Thr
356			10				15				20			
358 Cys	Arg	Ala	Ser	Gln	Asp	Ile	Asn	Asn	Tyr	Leu	Asn	Trp	Tyr	Gln
359				25			30				35			
361 Gln	Lys	Pro	Gly	Lys	Ala	Pro	Lys	Leu	Ile	Tyr	Tyr	Thr	Ser	
362			40			45				50				
364 Thr	Leu	His	Ser	Gly	Val	Pro	Ser	Arg	Phe	Ser	Gly	Ser	Gly	Ser
365			55			60				65				
367 Gly	Thr	Asp	Tyr	Thr	Leu	Thr	Ile	Ser	Ser	Leu	Gln	Pro	Glu	Asp
368			70			75				80				
370 Phe	Ala	Thr	Tyr	Tyr	Cys	Gln	Gln	Gly	Asn	Thr	Leu	Pro	Pro	Thr
371			85			90				95				

**VERIFICATION SUMMARY**

PATENT APPLICATION: US/09/724,868

DATE: 06/03/2003

TIME: 08:31:41

Input Set : N:\Crf3\RULE60\09724868.raw.txt  
Output Set: N:\CRF4\06032003\I724868.raw

L:32 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]

L:33 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]

L:40 M:238 W: Alpha Fields not Ordered [(A) APPLICATION NUMBER:] of (1) (vii)